

**Appendix E**  
**EXPLANATION OF THE MAPPING STRATEGY USED IN**  
**PLAYS 5801, 5804, 5812 and 6101**

In the Anadarko Basin and Southern Oklahoma Provinces (058 and 061), plays 5801, 5804, 5812, and 6101 each contain a number of individually mapped stratigraphic units within the framework of one play. Each play therefore contains different boundaries depending upon which stratigraphic interval is considered. Other plays in these two provinces are restricted to a single mapped stratigraphic unit stored in a single line or cell file.

The naming convention for base map and cell files for plays 5801, 5804, 5812, and 6101 is file0000x.lin for line files and file0000x.cls for cell files, where x is an alpha character designating the specific stratigraphic interval mapped. These alpha character designations or code for each stratigraphic interval are shown below:

Table 1. Stratigraphic units in play 5801 (Deep Structural Gas Play)

| <u>Stratigraphic unit (approximate age)</u>                          | <u>Code</u> |
|--|-------------|
| Hunton Group (Ordovician to Devonian)                                | d           |
| Viola Group (Late Ordovician)  | c           |
| Simpson Group (Middle to Late Ordovician)                            | b           |
| Arbuckle and Ellenburger Groups (Late Cambrian to Middle Ordovician) | a           |

Table 2. Stratigraphic units in play 5804 (Wichita Mountains Uplift Play)

| <u>Stratigraphic unit (approximate age)</u>     | <u>Code</u> |
|---|-------------|
| Upper Virgilian Rocks (Late Pennsylvanian)      | o           |
| Lower Virgilian Rocks (Late Pennsylvanian)      | n           |
| Lower Missourian Rocks (Late Pennsylvanian)     | m           |
| Lower Desmoinesian Rocks (Middle Pennsylvanian) | l           |

|  |   |
|--|---|
| Atoka Group (Middle Pennsylvanian)                                   | k |
| Morrow Group (Early Pennsylvanian)                                   | j |
| Springer Formation (Late Mississippian to Early Pennsylvanian)       | i |
| Upper Mississippian Rocks (Late Mississippian)                       | h |
| Lower Mississippian Rocks (Early to Late Mississippian)              | g |
| Woodford Shale (Late Devonian to Early Mississippian)                | f |
| Misener Sandstone (Late Devonian)                                    | e |
| Hunton Group (Ordovician to Devonian)                                | d |
| Viola Group (Late Ordovician)  | c |
| Simpson Group (Middle to Late Ordovician)                            | b |
| Arbuckle and Ellenburger Groups (Late Cambrian to Middle Ordovician) | a |

Table 3. Stratigraphic units in play 5812 (Deep Stratigraphic Gas Play)

| <u>Stratigraphic unit (approximate age)</u>                    | <u>Code</u> |
|--|-------------|
| Upper Desmoinesian Rocks (Middle Pennsylvanian)                | i           |
| Lower Desmoinesian Rocks (Middle Pennsylvanian)                | h           |
| Atoka Group (Middle Pennsylvanian)                             | g           |
| Morrow Group (Early Pennsylvanian)                             | f           |
| Springer Formation (Late Mississippian to Early Pennsylvanian) | e           |
| Upper Mississippian Rocks (Late Mississippian)                 | d           |
| Lower Mississippian Rocks (Early to Late Mississippian)        | c           |

|   |   |
|---|---|
| Woodford Shale (Late Devonian to Early Mississippian) | b |
| Misener Sandstone (Late Devonian)                     | a |

Table 4. Stratigraphic units in play 6101 (Deep Gas Play)

| <u>Stratigraphic units (approximate age)</u>   | <u>Code</u> |
|--|-------------|
| Desmoinesian Rocks (Middle Pennsylvanian)  | h           |
| Atoka Group (Middle Pennsylvanian)   | g           |
| Springer Formation - Morrow Group Rocks (Late Mississippian to Early Pennsylvanian)          | f           |
| Misener Sandstone, Woodford Shale, Sycamore Limestone (Late Devonian to Early Mississippian) | e           |
| Hunton Group (Ordovician to Devonian)  | d           |
| Viola Group (Late Ordovician)  | c           |
| Simpson Group (Middle to Late Ordovician)  | b           |
| Arbuckle Group (Late Cambrian to Middle Ordovician)  | a           |